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1. Getting started

- Commands are given in purple, e.g.: `sudo reboot`
- Paths and links are given in red: `imm/Pictures`
- Notices are given in orange: **No characters display when writing a password in terminal**
- Tips and tricks are given in green: You do not want to run configuration via IMM CC at every server separately; as long as they are more, IMM CC can be enabled from any PC connected to local network...
- Commands are in *italic*

Important configuration commands in Linux:

ifconfig - finding IP address of station/server, similar to IPCONFIG in Windows

mount – command for connection of certain device CD-ROM, network drive, etc.)

umount - command for disconnection of certain device

1.1. Putting Connection Server in run

- Once you unpack Connection server, let the device stabilize at room temperature.
- Insert attached SD card in the slot.
- Connect the cabling (do not connect the supply yet):
 - Display HDMI device
 - LAN cable for ethernet port!
 - Keyboard to USB port.
- After connecting the power supply (adapter with micro USB connector), Connection Server will start automatically.
- When starting the system you can watch opening of individual services on the screen. Some services do not open, and display FAILED in red; in majority of cases it is not a problem; and has no influence whatsoever on the run of Connection Server.
- When start of services is completed, only one line requiring login name will appear on the screen.

Alarmpi login: `imm`

Password: `imm123`



No characters display when writing a password in terminal

- g) To find IP address after signup use command `ifconfig`
- h) Further settings are performed via web interface iMM Control Center. And display device or keyboard need not be connected for the rest of time. Power supply, SD card with system and application and connection to network is sufficient to run Connection Server.

1.2. Basic settings

Setting in this chapter need not be carried out; it serves for potential problem solution and general assistance in the Linux system orientation. Majority of these settings is done already in the production but one should get familiarized with them and go back to them if a problem occurs.

1.2.1. Change of password

- a) Enter `sudo passwd` and confirm by Enter.
- b) You will be asked to enter the original password (default is "imm123"), and confirm by Enter.
- c) Then enter a new password, confirm by Enter; repeat the new password and confirm by Enter.



No characters display when writing a password in terminal.

1.2.2. System restart and shutdown

If you already know the IP address of Connection Server, the best way to restart or switch off is via iMMCC or remote access. By means of SSH e.g. in Putty software (free downloadable on internet). Sign up with the same data:

Login: `imm`

Password: `imm123`

Command for restart: `sudo reboot`

Command for switching off: `sudo shutdown`



If you begin with sudo command, Linux should always ask to enter the password.

1.2.3. Setting static Connection Server IP address

iMM Control Center / System settings
ver. connection-server-2.873

Server Configuration **System** RF Configuration A/C Rooms Cameras Intercoms Energy Audit

IP address in sub-network which iMM server is connected to

Mask setting

Default

DNS server

Network setting
☒ DHCP
☐ IP: 192.168.1.20 Netmask: 255.255.255.0 Gateway: 192.168.1.1 DNS: 192.168.1.1
Save

Shutdown server
Shutdown

Restart server
Restart

Network interface setting

Button for complete shutdown

Restart button

NFS Server Configuration
Update

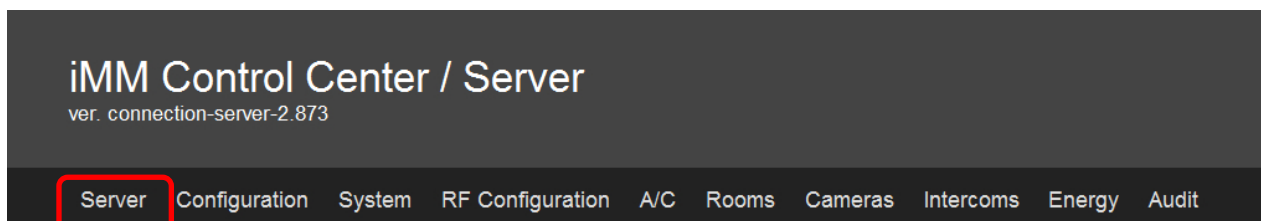
In the System bookmark, you can reset parameters of network setting or restart, or use the "Shutdown" button to turn off Connection Server completely.
IP address is usually set static to avoid its change in time.

2. Configuration in IMM Control Center

IMM Control Center (the "iMMCC" hereinafter) is web interface serving for Connection Server setting. iMM CC is activated upon entering an address in your internet browser.

2.1. iMM CC setting

2.1.1. Bookmark Server



IMM servers management:

EPSNET:

Status Start Stop

Virtual server communicating with central unit

MIELE:

Status Start Stop

Virtual server communicating with Miele

RF:

Status Start Stop

RPC:

Status Start Stop

Virtual server communicating with iHC applications

This bookmark contains control to virtual servers necessary for communication with CU, applications and devices of third parties. Within diagnostics, the state of individual virtual servers can be revealed (button "**Status**"), suspend their run (button "**Stop**"), or turn them on (button "**Start**"). Servers are turned on automatically when Connection Server starts up.

2.1.2.Bookmark Configuration

iMM Control Center / Configuration
ver. connection-server-2.873

Server **Configuration** System RF Configuration A/C Rooms Cameras Intercoms Energy Audit

Settings

IP of iNELS CU: 192.168.1.1
IP of iMM Server: 127.0.0.1:8000
Machine ID: 14aa9dce4c5892b4a3352a0c36c2dfe6
Licence key: 19b0fbc027deb787

Upload or edit export.pub

```

UserBits R B 17112 UDINT PUB_INOUT
system_Voda_UP R B 4 .0 BOOL PUB_INOUT
system_Voda_DOWN R B 4 .1 BOOL PUB_INOUT
system_Voda_RESET R B 4 .2 BOOL PUB_INOUT
system_Voda_VALUE R B 5 UINT PUB_INOUT
system_Plyn_UP R B 7 .0 BOOL PUB_INOUT
system_Plyn_DOWN R B 7 .1 BOOL PUB_INOUT
system_Plyn_RESET R B 7 .2 BOOL PUB_INOUT
system_Plyn_VALUE R B 8 UINT PUB_INOUT
system_Elektrika_UP R B 10 .0 BOOL PUB_INOUT
system_Elektrika_DOWN R B 10 .1 BOOL PUB_INOUT
system_Elektrika_RESET R B 10 .2 BOOL PUB_INOUT
system_Elektrika_VALUE R B 11 UINT PUB_INOUT
system_TIM1_Voda_lsec_START R B 13 .0 bool PUB_INOUT
system_TIM1_Voda_lsec_STOP R B 13 .1 bool PUB_INOUT
system_TIM1_Voda_lsec_RESET R B 13 .2 bool PUB_INOUT
system_TIM1_Voda_lsec_VALUE R B 14 UINT PUB_INOUT
system_TIM2_Plyn_0_5_sec_START R B 27 .0 bool PUB_INOUT
system_TIM2_Plyn_0_5_sec_STOP R B 27 .1 bool PUB_INOUT
system_TIM2_Plyn_0_5_sec_RESET R B 27 .2 bool PUB_INOUT
system_TIM2_Plyn_0_5_sec_VALUE R B 28 UINT PUB_INOUT

```

Central unit IP address

iMM server IP address

Application licence

Update settings

Find file "export.pub"

Upload file "export.pub"

There are units, events and variables from iNELS that are imported to iMM

Save changes performed in the extract from file export.pub

On this bookmark you can set IP address of central unit, IP address of server; in this case local address of Connection Server by entering 127.0.0.1!

There you can also upload export.pub exported from central unit

2.1.3.Bookmark A/C

Serves for definition of air conditioning units and their control by means of iHC application. Supported communication card for air conditioning units is LG je PI485. See chapter [Wiring of Air Conditioning Units](#) for connection.

iMM Control Center / Configuration of clims
ver. connection-server-2.873

Server Configuration System RF Configuration **A/C** Rooms Cameras Intercoms Energy Audit

LG clim

Optional name of inner unit

Selection of communication interface

Unit name (optional)

IP address of RS232 converter

Selection of UID same as you selected for air

Communication port of RS485/Ethernet converter

IP address of RS485/Ethernet

Serves for entering central air conditioning address

CoolMaster Settings

CoolMaster unit

AiRPohoda

Atrea

Creates defined air conditioning unit

Central air conditioning unit

List of already defined air conditioning units

LG climatizations

Name	Type	Connection	Group	Unit	
MG	lg_pi485	10.10.1.235:10001	0	4	Remove
Zasedacka	lg_pi485	10.10.1.235:10001	0	1	Remove
Asistentky	lg_pi485	10.10.1.235:10001	0	2	Remove
JK	lg_pi485	10.10.1.235:10001	0	3	Remove

AiRPohoda

Name	Type	Connection	
Air	Air	10.10.3.206	Remove

CoolMaster

Name	UID	
CMSkolici	101	Remove

Atrea

Name	Type	Connection	
Atrea	atrea_Duplex_180_EC4D	10.10.3.207:502	Remove

2.1.4. Bookmark Rooms

Serves for configuration of file rooms.cfg which uploads iHC applications. Read more in the manual for iHC application.

iMM Control Center / Configuration of rooms

ver. connection-server-2.873

[Server](#) [Configuration](#) [System](#) [RF Configuration](#) [A/C](#) [Rooms](#) [Cameras](#) [Intercoms](#) [Energy](#) [Audit](#)

New room

Name

Protect by password ☐

[Add](#)

	Edit		
global	Edit		
Obyvák	Edit	Set password	Remove
Chodba	Edit	Set password	Remove
Ložnice	Edit	Set password	Remove

Name of new room

New room

Name

Protect by password ☐

Control of room will be protected by password

[Add](#)

Editing items in room

global

[Edit](#)

Obyvák

[Edit](#)

[Set password](#)

[Remove](#)

Chodba

[Edit](#)

[Set password](#)

[Remove](#)

Ložnice

[Edit](#)

[Set password](#)

[Remove](#)

Removal of room

Password setting and change for access to room

2.1.5. Bookmark Cameras

Serves for defining IP cameras you want to check by means of Application.

HTTP and RTSP ports are only entered if your IP cameras are configured for access from external network.

All cameras by Axis manufacturer with V2 and V3 protocol are supported, further we support the below listed types of cameras:

AirLive-WL2600, AirLive AirCam OD-600HD, AirLive AirCam OD-325HD, Planet ICA-M220, ACTi-ACM, and the following types by company Vivotek: FD-8134, FD-7132, PZ-7132.

iMM Control Center / Configuration of cameras
ver. connection-server-2.873

Server Configuration System RF Configuration A/C Rooms **Cameras** Intercoms Energy Audit

New camera

Select any camera name

Camera IP address

User name for access to camera

Access password for camera

HTTP port

RTSP port

RTSP port

Camera type

create

List of cameras

NameIP address
VenkuRemove
DomaRemove

List of already defined cameras

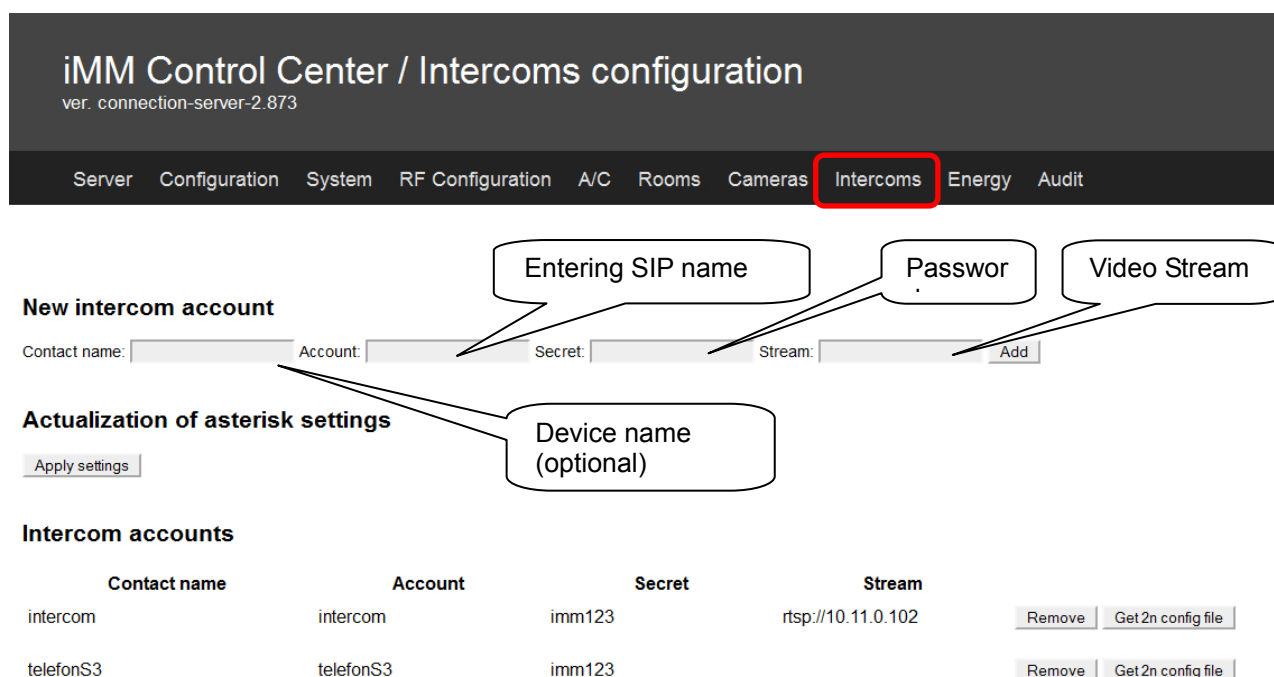
2.1.6. Calling between individual devices and sound

Set the following in the bookmark Intercoms: name, SIP name, password and videostream of device that you select beforehand for the device to call (sound, IMM client, phone), and add using the Add key. Copy Videostream from individual devices as long as they support it, e.g.: sounds from web interface, webcam or any IP camera.

For instance, for 2n sound it will be stream, e.g.: "rtsp://192.168.88.83" which consists of "rtsp://", which is a kind of stream and sound IP address.

Once you set all calling devices, save it by pressing Apply settings.

Note: After clicking the Apply settings option, configuration files of asterisk server will overwrite. If you need own asterisk configuration, do not use "Apply settings", and modify configuration files manually. Add new contacts in IMMCC by filling in the contact and clicking the Add key.



iMM Control Center / Intercoms configuration
ver. connection-server-2.873

Server Configuration System RF Configuration A/C Rooms Cameras **Intercoms** Energy Audit

New intercom account

Contact name: Account: Secret: Stream:

Actualization of asterisk settings

Intercom accounts

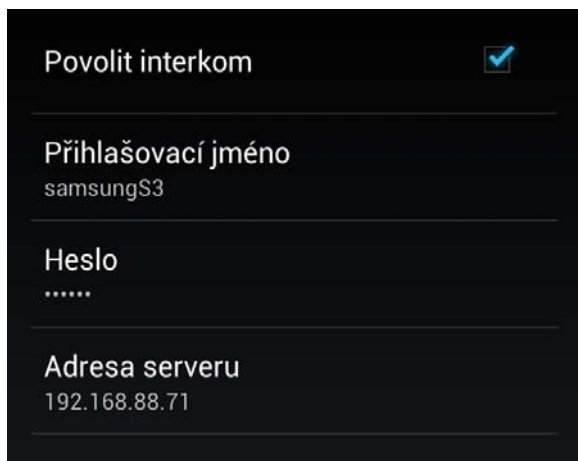
Contact name	Account	Secret	Stream	
intercom	intercom	imm123	rtsp://10.11.0.102	<input type="button" value="Remove"/> <input type="button" value="Get 2n config file"/>
telefonS3	telefonS3	imm123		<input type="button" value="Remove"/> <input type="button" value="Get 2n config file"/>

2.1.7. Phone settings

Go to applications → menu → intercom settings, and there click on "Enable intercom"

Enter the same data for the signup name as on the server web interface (e.g. SAMSUNGS3)

Also the password must be identical with the one entered on the server. Finally enter the IP address of Connection Server where you completed the settings.



Povolit interkom ☒

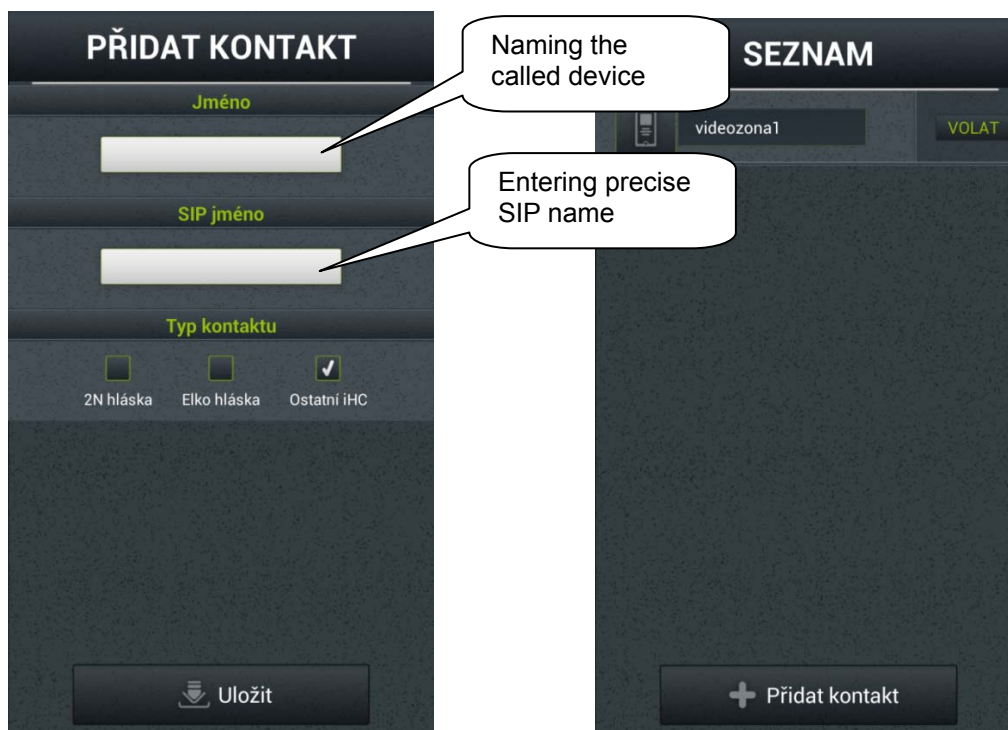
Přihlašovací jméno
samsungS3

Heslo

Adresa serveru
192.168.88.71

In the application click on the intercom icon and then on „Add contact“.

Name the opposite station and enter its precise SIP name (the name you entered on the server), and then select Type of contact and select "Save".



PŘIDAT KONTAKT

Jméno

SIP jméno

Typ kontaktu

☐ 2N hláška ☐ Elko hláška ☒ Ostatní iHC

Uložit

SEZNAM

videozona1 VOLAT

+ Přidat kontakt

Sound settings:



PŘIDAT KONTAKT

Jméno

SIP jméno

Typ kontaktu

☒ 2N hláska ☐ Elko hláska ☐ Ostatní iHC

IP adresa

Přihlašovací jméno

Uložit

ŘÍDIT KONTAKT

SIP jméno

Typ kontaktu

☒ 2N hláska ☐ Elko hláska ☐ Ostatní iHC

IP adresa

Přihlašovací jméno

Heslo

Uložit

Naming the sound in the

SIP name same as the one on the server

Sound IP address

Login name web sound interface

Password for web sound interface



2.1.8.IP sound

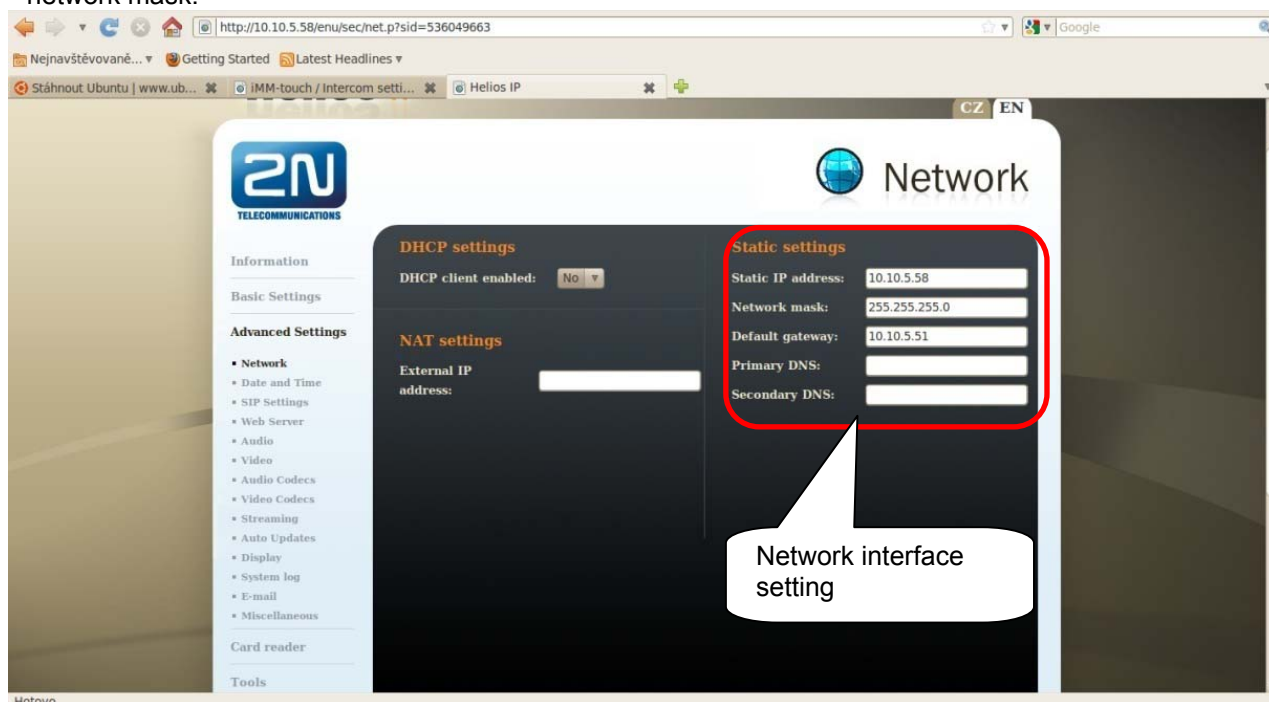
For IP sound 2N® Helios a source DC 12V/2A should be used. See the manufacturer's user manual for more detailed information on IP sound wiring. Assignment of IP address from DHCP server is set on the new IP sound. The assigned IP address of the sound has to be ensured (in the abstract on router, alternatively by means of software 2N® Helios IP Network Scanner)

- a) Sign up to discovered IP sound via web interface.

Signup name: **admin** Password: **2n**



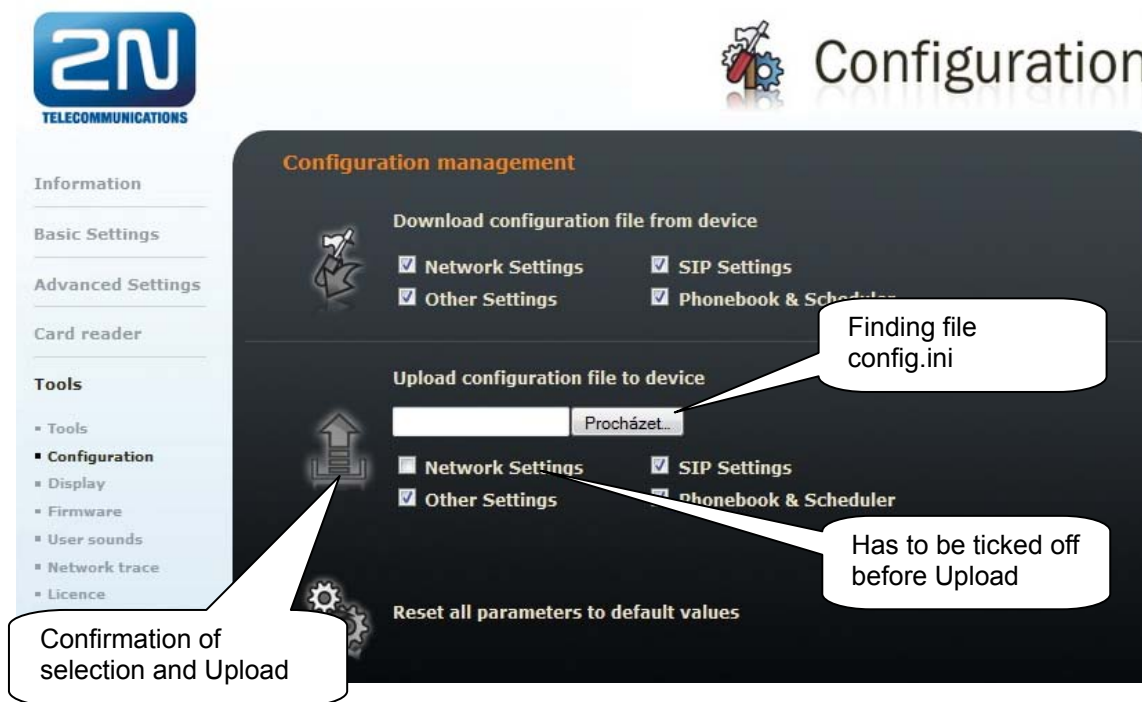
In the bookmark **AdvancedSettings -> Network** set fixed IP address from relevant range, and sub-network mask.



- b) The **config.ini** file generated from server web interface of a line where the added IP sound is located, has to be uploaded to IP sound via its web interface, in the following bookmark:

Tools -> Configuration -> Upload configuration file to device

Before uploading config.ini to sound, the Network Settings field must be ticked off.



For successful completion of installation the device must be restarted after the installation.

2.1.9. Bookmark Energy

Directly in iMM Application the amount of energy consumption can be clearly displayed. Energy is recounted based on the amount of impulses that provide outputs from meters (gas-meters, electrometers, water-meters). Impulses are further processed in an optional input unit of system iNELS (IM2-140M, IM2-20/40/80B) in form of a counter. This value is by means of export.pub transferred to Connection Server where variable is in iMMCC on bookmark Energy assigned to Watter/Gas/Electrical. The setting of pulse conversion to unit of measure, selection of currency and setting the currency/unit is performed in iMMCC application in activated Energy module. The Energy module allows recording of consumed energy for a day, week, month and year. Data are saved in iMM Server – the data do not get lost even in case of power shutdown or power cut. Consumption can be displayed in a table or graph.

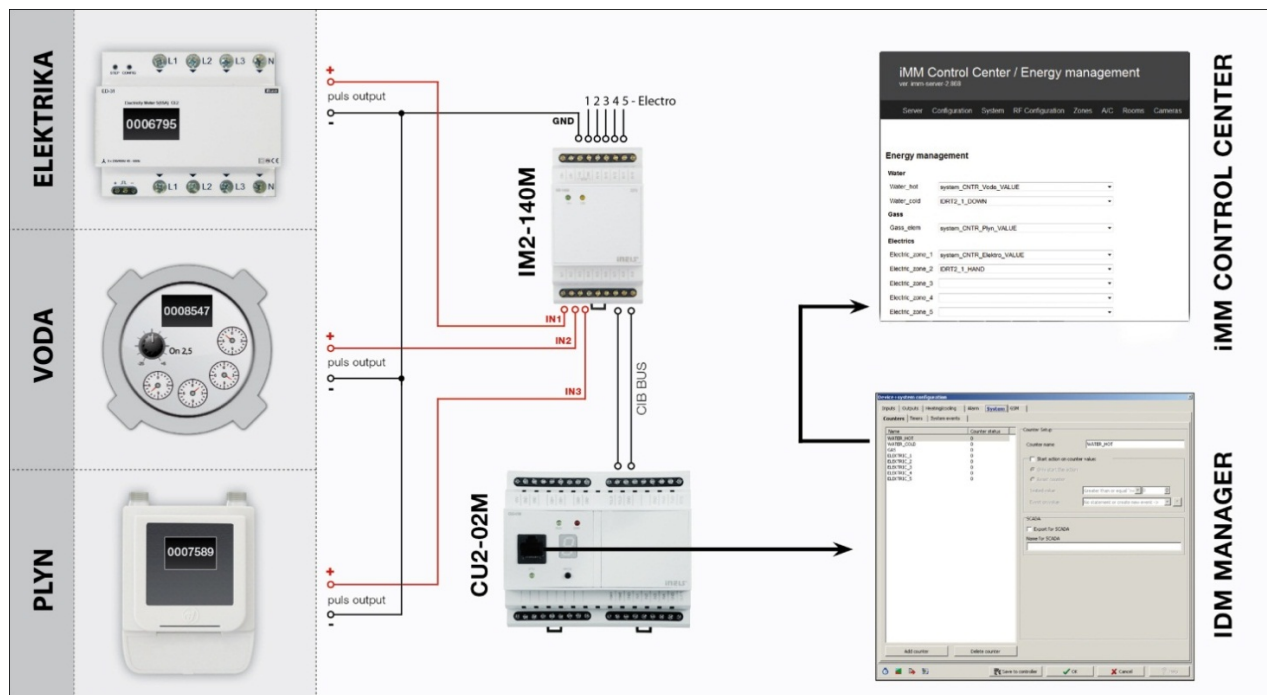
Consumed energy is displayed not only in given quantity but also as financial value.

1. Click on the System Configuration button (icon of hammer and screwdriver – F11)
2. Select bookmark System -> counters
3. Add counter that you name by energy you want to measure
4. Create a new action that you name e.g. upload electricity
5. Add a command in the action which will be user action -> commands for counters -> increment counter
6. Select counter that corresponds with given action (e.g. for upload electricity you put counter electricity)
7. Add the action created as described above in system configuration to relevant binary input in action line when the input closes

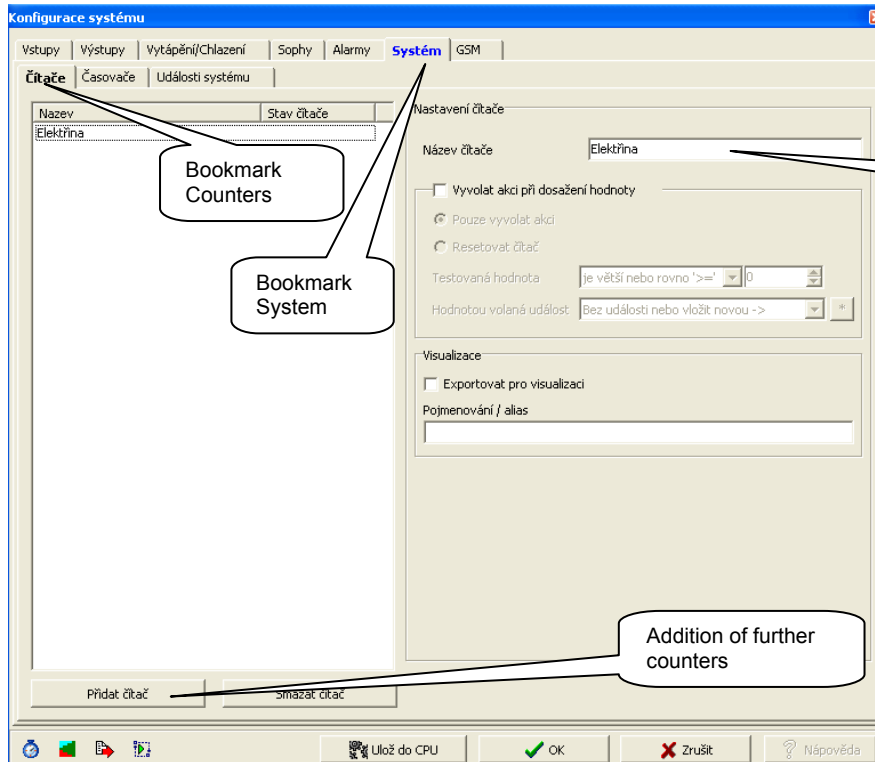
- Once the file export-pub is created and uploaded to IMM server, in bookmark Energy you can assign in the counter value line (electricity_VALUE). It must be VALUE in the line.

Connection of energy meter

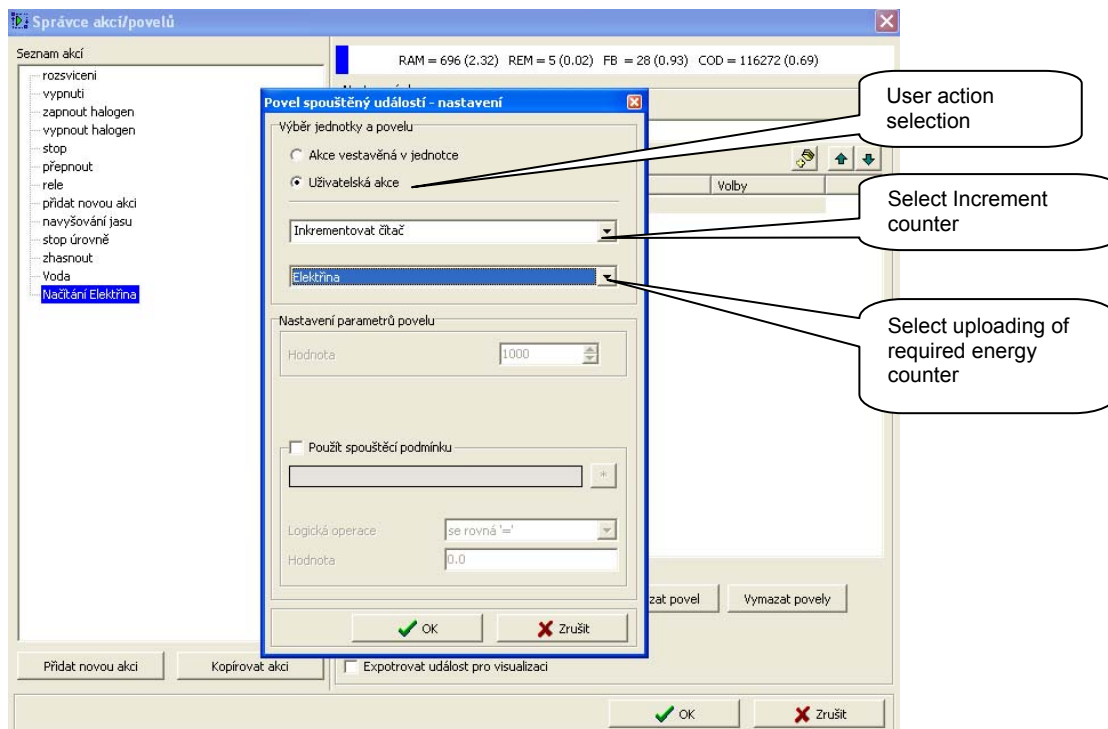
Energy meter connects by means of a binary output unit. Output from supported energy meter is distinguished to + a -, that's why polarity has to be maintained by bringing – minus to GND terminal and + plus to IN terminal. See 3.1.7. for settings.



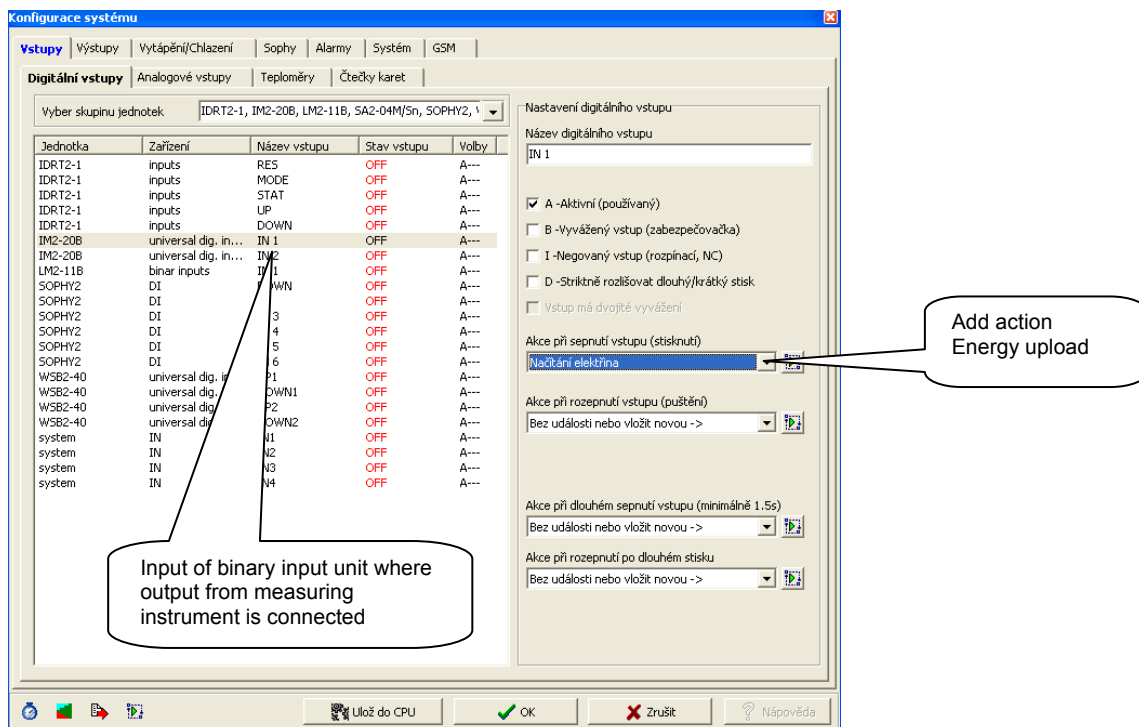
Creation of counter:



Creation of action "Counter incrementing":



Action assignment to binary input where output from measuring instrument is connected.



Assignment of counter value in iMM Control Center

iMM Control Center / Energy management

ver. connection-server-2.873

Server Configuration System RF Configuration A/C Rooms Cameras Intercoms **Energy** Audit

Energy management

Water

Water_hot

Water_cold

Gas

Gas_elem

Electrics

Electric_zone_1

Electric_zone_2

Electric_zone_3

Electric_zone_4

Electric_zone_5

For hot water consumption measurement

For cold water consumption measurement

For gas consumption measurement

Selection of counters from file export.pub

For electricity consumption measurement (for up to 5 independent measurements)

Switching of basic unit

Electric Base unit: ☒ kWh ☐ MWh

Impulses: per

Price: per Impulses

Number of impulses for given unit

Price of one impulse

Water Base unit: ☐ l ☐ hl ☐ m3 ☐ Gallon UK ☐ Galon US

Impulses: per

Price: per Impulses

Gas Base unit: ☐ m3

Impulses: per

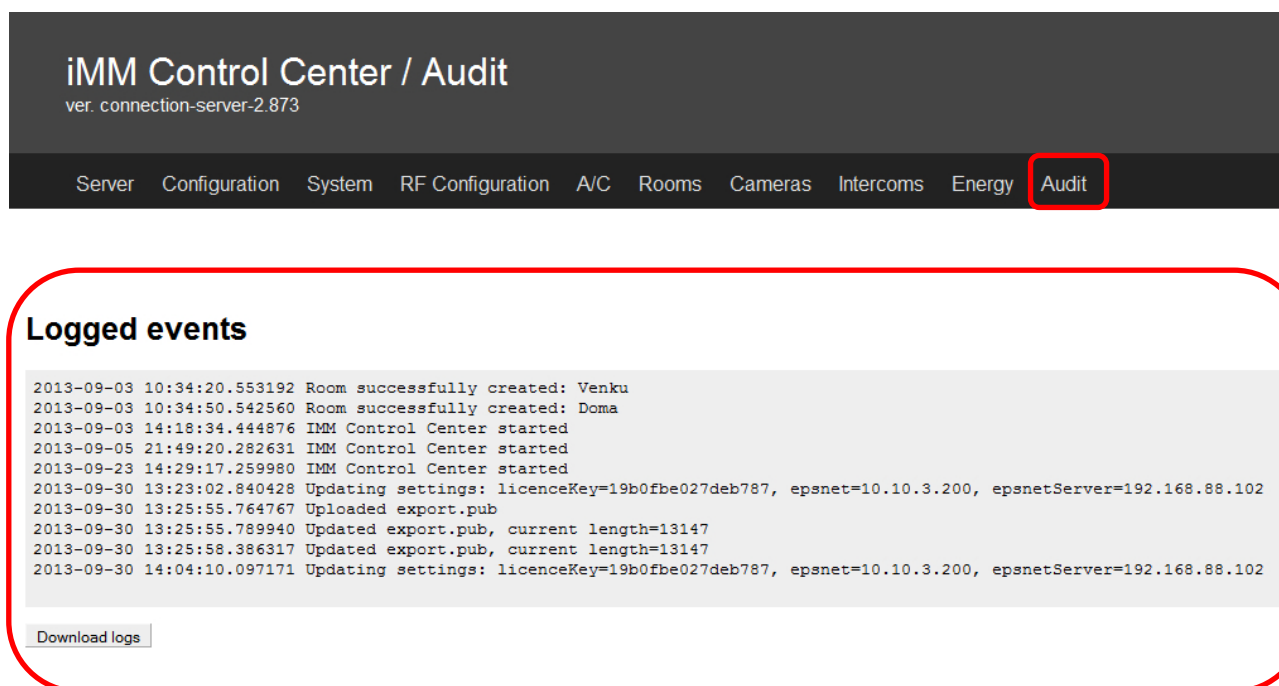
Price: per Impulses

Currency:

Currency setting

2.1.10. Bookmark Audit

Bookmark Audit serves for displaying and uploading LOG of events for diagnostic purposes.



iMM Control Center / Audit
ver. connection-server-2.873

Server Configuration System RF Configuration A/C Rooms Cameras Intercoms Energy **Audit**

Logged events

```
2013-09-03 10:34:20.553192 Room successfully created: Venku
2013-09-03 10:34:50.542560 Room successfully created: Doma
2013-09-03 14:18:34.444876 IMM Control Center started
2013-09-05 21:49:20.282631 IMM Control Center started
2013-09-23 14:29:17.259980 IMM Control Center started
2013-09-30 13:23:02.840428 Updating settings: licenceKey=19b0fbe027deb787, epsnet=10.10.3.200, epsnetServer=192.168.88.102
2013-09-30 13:25:55.764767 Uploaded export.pub
2013-09-30 13:25:55.789940 Updated export.pub, current length=13147
2013-09-30 13:25:58.386317 Updated export.pub, current length=13147
2013-09-30 14:04:10.097171 Updating settings: licenceKey=19b0fbe027deb787, epsnet=10.10.3.200, epsnetServer=192.168.88.102
```

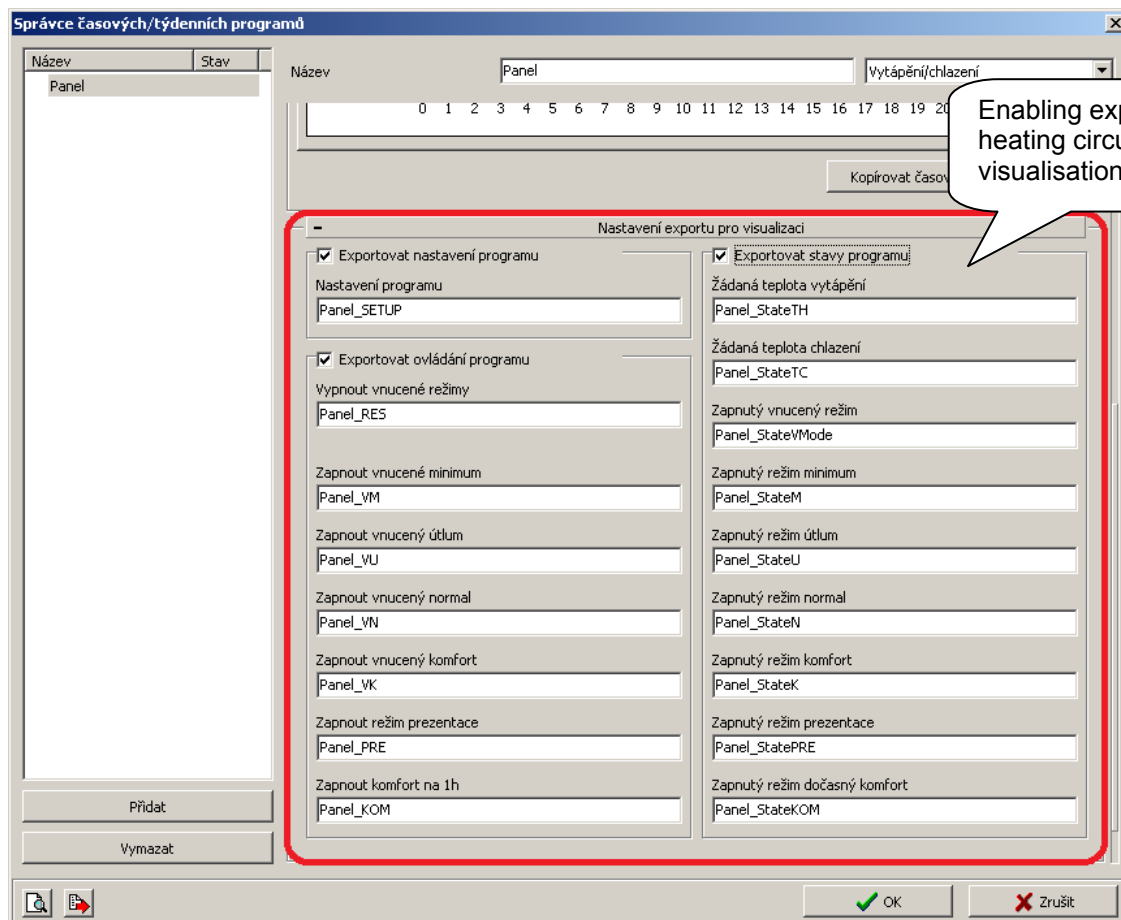
[Download logs](#)

When configuration in iMM CC is finished, restart Connection Server.

2.2. Heating

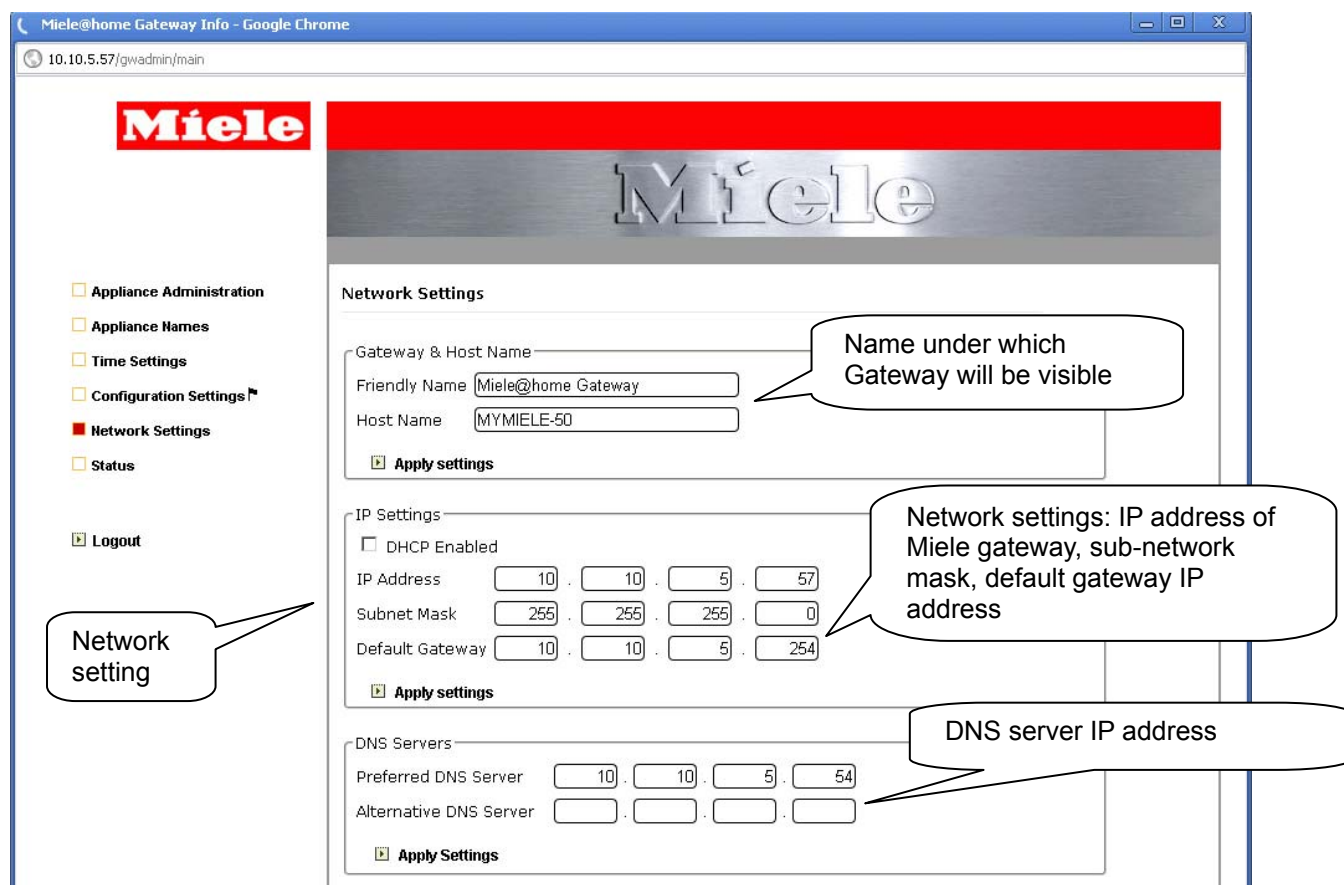
In iHC application you can switch between individual heating modes within given temperature program (Minimum, Inhibition, Normal, Comfort, Auto).

If you wish to control individual heating modes, you have to enable export of control and setting of heating program in IDM software. In time/weekly program administrator a part of export setting for visualisation.



2.3.Connection of Miele household appliances

To connect, you need to have connected Gate-wayXGW 2000 in the network which receives information from Miele device on PowerLine, and sends it on LAN network to IMM server and IMM clients. All devices must be on one phase. Communication on power line is enabled by all Miele appliances that have logo miele@Connection.



Miele@home Gateway Info - Google Chrome
10.10.5.57/gwadmin/main

Miele

Network Settings

Gateway & Host Name

Friendly Name: Miele@home Gateway

Host Name: MYMIELE-50

Apply settings

IP Settings

☐ DHCP Enabled

IP Address: 10 . 10 . 5 . 57

Subnet Mask: 255 . 255 . 255 . 0

Default Gateway: 10 . 10 . 5 . 254

Apply settings

DNS Servers

Preferred DNS Server: 10 . 10 . 5 . 54

Alternative DNS Server:

Apply Settings

Network setting

Name under which Gateway will be visible

Network settings: IP address of Miele gateway, sub-network mask, default gateway IP address

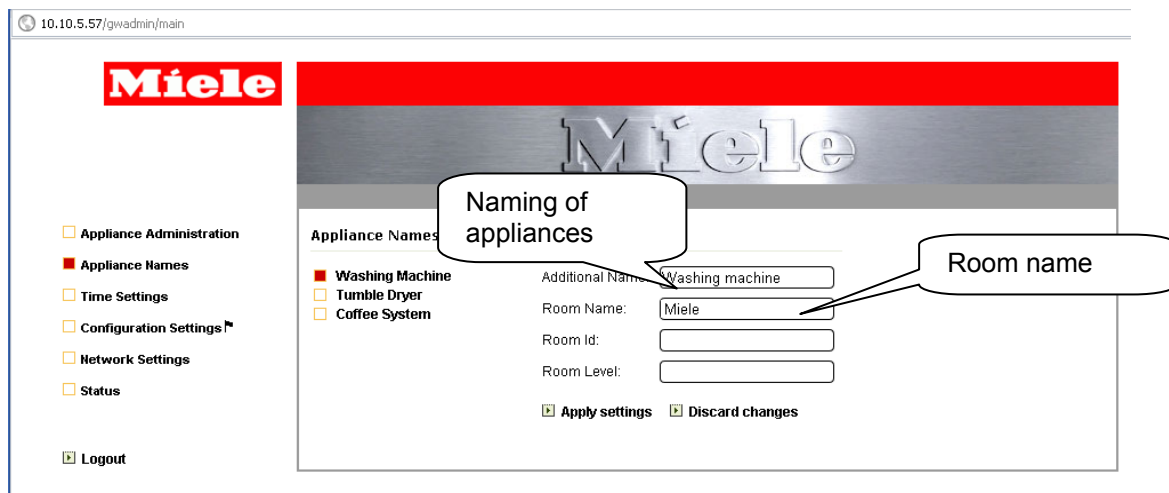
DNS server IP address

XGW 2000 network setting

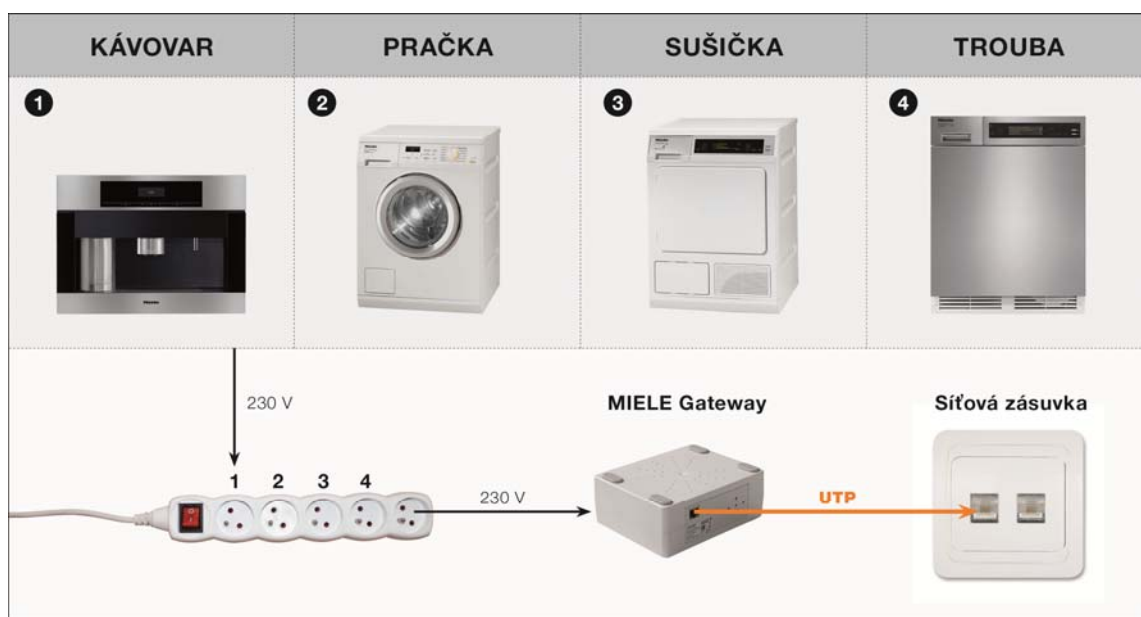
For integration of XGW 2000 in network you need to set fixed IP address via its web interface from the given range of your network. On web interface Miele@Connection you can see all connected appliances. You can thus check that all appliances you use have sufficiently strong signal for XGW 2000.

Setting the MieleGateWay IP address is recorded on IMM server in file `/etc/imm/miele` where the basic shape is already set within the factory settings, and only the IP address XGW 2000 has to be added in between the quotation marks.

In order to display the Miele control screen, similarly as for energy management, an icon referring to it has to be added on the Floorplan. Adding the icon is ruled by the same principles as those advised in chapter 4.1 provided that you need to go for "Miele" option on the list of elements. To describe the icon it is **NECESSARY** to keep the same name as is the name of the room – for the appliance on the web interface (Room Name). Only appliances with the same room name will display which serves better arrangement in Control of Miele appliances.



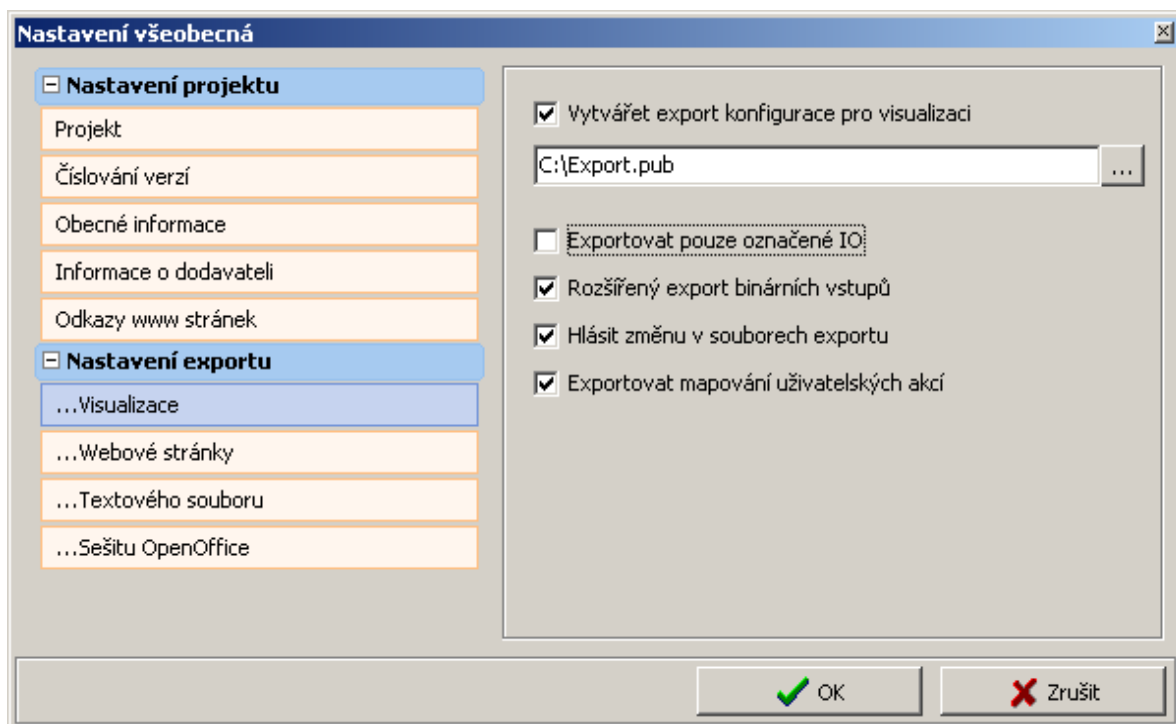
Basic Miele wiring



3. Supplements

3.1. Export of configuration file to IMM

In the iNELS Design Manager (iDM) environment in the window “General Settings” select by the picture. Export will be performed when the project is saved in the central unit!



Two files Export.exp and Export.pub will be created in selected folder; the Export.pub is important for upload in IMM Control Centre.

In case of large installation we recommend to use cutchoose program for export.pub. This program serves for trimming export pub only for useful and important elements, and thus easier searching of elements in IMM floorplan in configuration.

- If subtitles do not display correctly, subtitle encoding must be changed. The UNICODE encoding is set in the default.

3.2. Third parties' devices

3.2.1. Supported Miele appliances

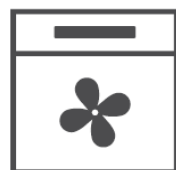
Washing machines

W 5967 WPS AutoDos
W 5000 WPS Supertronic
W 2859i WPM



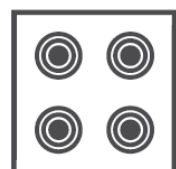
Integrated steam ovens

DG 5080
DGC 5080 XL
DGC 5085 XL



Glass ceramic cooking hotplates

KM 6202
KM 6204
KM 6212



Driers

T 4859 Ci
T 8969 WP EcoComfort
T 8001 WP Supertronic



Dishwashers

G 5930 SCi
G 5935 SCi XXL
G 5980 SCVi
G 5985 SCVi XXL



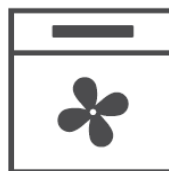
Coffee makers

CVA 5060
CVA 5065

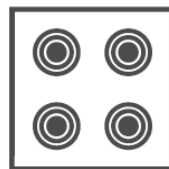


Integrated baking ovens

H 5681 B
H 5681 BP
H 5681 BL/R
H 5681 BPL/R
H 5981 BP
H 5081 B
H 5081 BP
H 5080 B

**Induction cooktops**

KM 5956
KM 6314
KM 6315
KM 6317
KM 6346
KM 6352
KM 6354
KM 6380
KM 6382
KM 6383

**Kitchen aspirators**

DA 420-4
DA 420 V
DA 424 V
DA 430-4
DA 5000 D
DA 5100 D
DA 5294 D
DA 5320 D
DA 5330 D
DA 5590 D
DA 5620 D
DA 6290 D
DA 6590 D
DA 6520 D
DA 249-4
DA 289-4
DA 439
DA 489-4
DA 5190 W
DA 5294 W
DA 5320 W
DA 5390 W
DA 5590 W
DA 5690 W
DA 6000W
DA 6290 W
DA 6590 W

3.2.2. Air conditioning unit CoolMaster

CoolMaster

There are 8 different versions for individual air conditioning makers

- CoolMaster Daikin 1000D
- CoolMaster Sanyo 2000S
- CoolMaster Toshiba3000T
- CoolMaster Mitsubishi Electric 4000M
- CoolMaster LG 6000L
- CoolMaster Fujitsu 7000F
- CoolMaster Mitsubishi Heavy 8000MH
- CoolMaster Hitachi 9000H



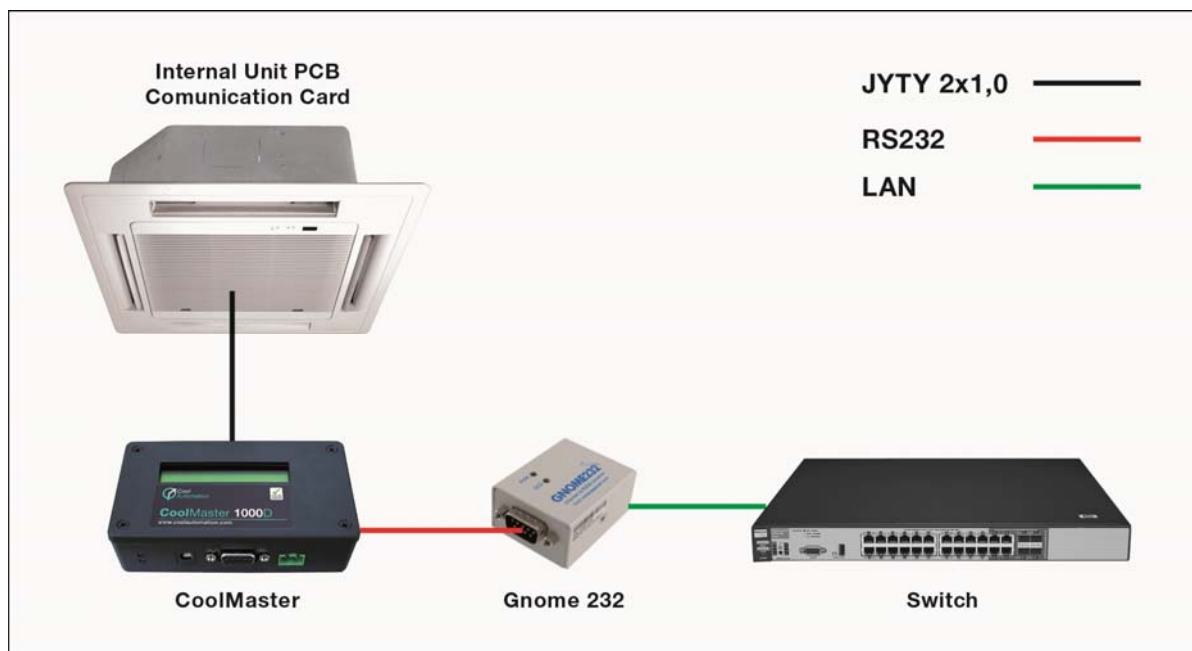
Step-by-step putting in operation:

1. Connect all by the attached wiring scheme
2. Set the RS232/ETHERNET converter
3. Set the central address on the wall air conditioning unit control
4. iMM communicates via converter Papouch GNOME RS232 and its IP address has to be entered in file /etc/imm/coolMaster.cfg together with the type of the CoolMaster control unit.

If everything is set correctly, the CoolMaster display will not show U00 G00 but the typed address. For instance, U00 G01. Then everything goes via iMM client but the air conditioning unit can still be controlled via local control; they mutually synchronize.

Illustrative putting in operation:

Wiring scheme



Connectors on unit

Setting the RS232/ETH converter

PAPOUCH.com
Product: GNOME232 • Firmware: • MAC address:

[Homepage](#)
[Contact](#)
[Network](#)
[Server](#)
[Hostlist](#)
[Serial Settings](#)
[Connection](#)
[Email](#)
[Trigger 1](#)
[Trigger 2](#)
[Trigger 3](#)
[Apply Settings](#)
[Apply Factory Defaults](#)

Serial Settings

Port Settings

Line speed: Character size: Parity: Stop Bit: Flow Control:

Pack Control

☐ Enable Packing
Idle Time:

Match 2 Byte Sequence: ☐ Yes ☒ No Send Frame Only: ☐ Yes ☒ No
Match Bytes: (Hex) Send Trailing Bytes: ☒ None ☐ One ☐ Two

Flush Mode

Flush Input Buffer

With Active Connect: ☐ Yes ☒ No

With Passive Connect: ☐ Yes ☒ No

At Time of Disconnect: ☐ Yes ☒ No

Flush Output Buffer

With Active Connect: ☐ Yes ☒ No

With Passive Connect: ☐ Yes ☒ No

At Time of Disconnect: ☐ Yes ☒ No

PAPOUCH.com
Product: GNOME232 • Firmware: • MAC address:

[Homepage](#)
[Contact](#)
[Network](#)
[Server](#)
[Hostlist](#)
[Serial Settings](#)
[Connection](#)
[Email](#)
[Trigger 1](#)
[Trigger 2](#)
[Trigger 3](#)
[Apply Settings](#)
[Apply Factory Defaults](#)

Connection Settings

Connect Protocol

Protocol:

Connect Mode

Passive Connection:

Accept Incoming:

Password Required: ☐ Yes ☒ No

Password:

Active Connection:

Active Connect:

Start Character: (in Hex)

Modem Mode:

Mdm Esc Seq Pass Thru: ☒ Yes ☐ No

Endpoint Configuration:

Local Port: ☐ Auto increment for active connect

Remote Port: Remote Host:

Common Options:

Telnet Mode: Connect Response:

Terminal Name: Use Hostlist: ☐ Yes ☒ No LED:

How to set Daikin central address



Press and hold down for 5 seconds the TEST button

Setting mode 00 shows in the middle, and GROUP and the number on the left.



(GROUP should flash; if not press the on/off key; then it should flash).



Select the desired central address using the time setting button

Confirm by pressing the on/off button.



Complete settings by TEST button.

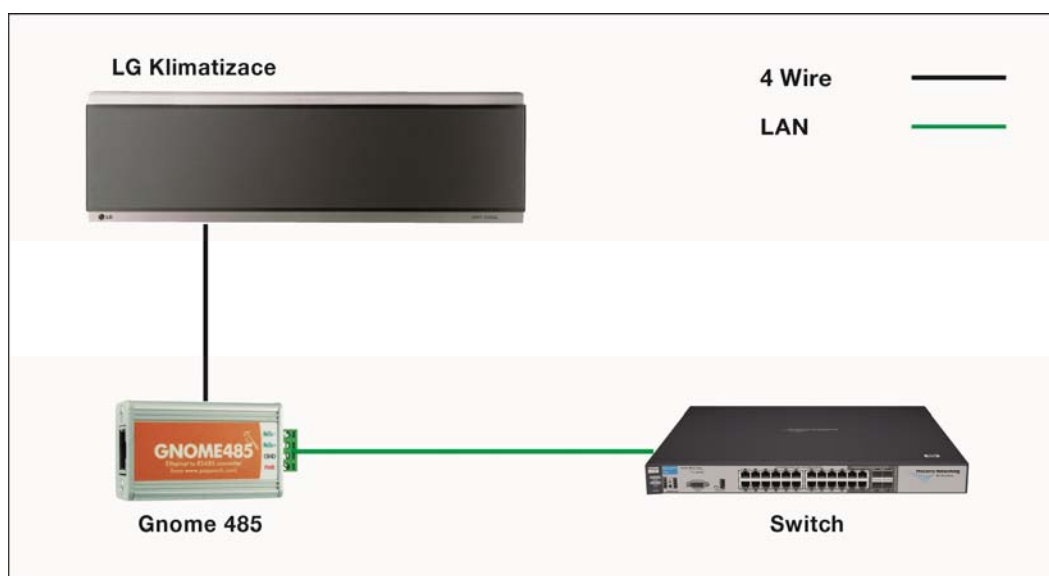
3.2.3. Connection of air conditioning units

Connection of air conditioning units

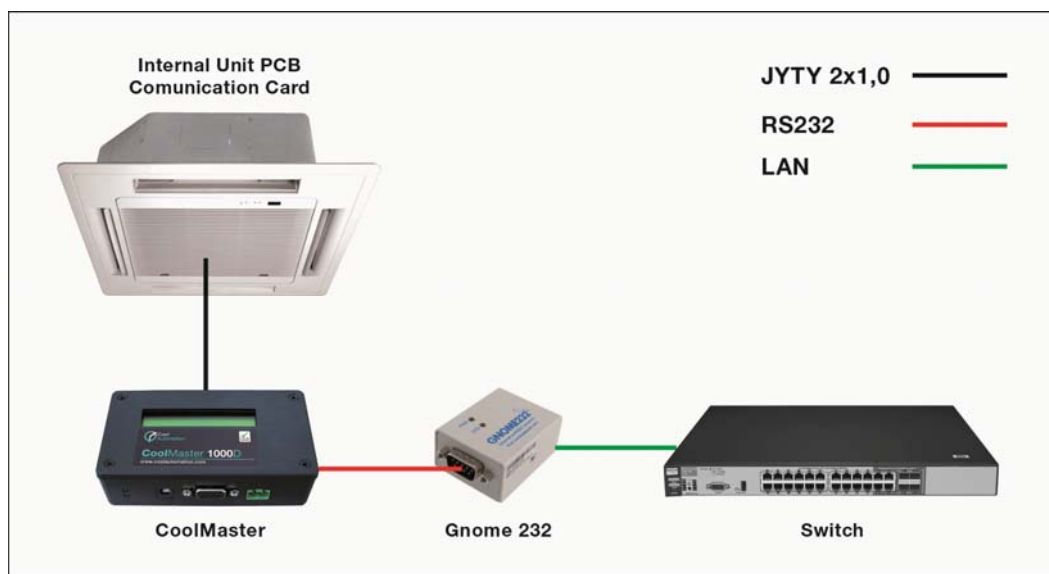
There are two ways of connecting air conditioning units in iMM system:

- Direct
- Indirect

a) Direct connection means that the air conditioning unit control protocol is implemented directly in iMM. Currently air conditioning units of LG brand are supported; others have been worked on. We support communication of LG air conditioning units which is marked as PI485. Any LG unit supports that interface; it can be interconnected to application iTP via iMM.



b) Indirect connection means utilization of communication unit CoolMaster which can communicate with different types and makers of air conditioning units (http://www.inels.cz/media/PDF-export/download/Coolmaster_compatibility.pdf). CoolMaster is then controlled from iMM.



Interconnection is performed by means of 485/ETHERNET converter. Steps for communication setting:

1. Connect the converter to communication interface of air conditioning unit and to ethernet.

- Set central address on air conditioning unit using a remote control (see the air conditioning unit user manual).

Example:

- RESET – hold down
 - MODE – hold down
 - Release RESET
 - When 00 displays, release MODE
 - Set the address inside the unit using buttons for temperature setting
 - Press ON/OFF for directing to the inner unit
 - Address displays on the unit
 - To finish the setting, reset the control
 - To check the address: RESET + PLASMA
- Set the converter
 - Add the air conditioning unit in clims in IMM web interface (see 2.1.4.)
 - Add air conditioning units in rooms in IMM web interface (see 2.1.5.) 2.1.5.)

Setting the 485/ethernet converter – bookmark Serial Settings

PAPOUCH.com
Product: GNOME485 • Firmware: • MAC address:

[Homepage](#)
[Contact](#)
[Network](#)
[Server](#)
[Hostlist](#)
[Serial Settings](#)
[Connection](#)
[Email](#)
[Trigger 1](#)
[Trigger 2](#)
[Trigger 3](#)
[Apply Settings](#)
[Apply Factory Defaults](#)

Serial Settings

Port Settings

Line type: RS232

Flow Control: None

Line speed: 4800

Data Bits: 8

Parity: None

Stop Bit: 1

Pack Control

☐ Enable Packing

Idle Time: 12 msec

Match 2 Byte Sequence: ☐ Yes ☒ No

Send Frame Immediate: ☐ Yes ☒ No

Match Bytes: 0x00 0x00 (Hex)

Send Trailing Bytes: ☒ None ☐ One ☐ Two

Flush Mode

Flush Input Buffer

With Active Connect: ☐ Yes ☒ No

With Passive Connect: ☐ Yes ☒ No

At Time of Disconnect: ☐ Yes ☒ No

Flush Output Buffer

With Active Connect: ☐ Yes ☒ No

With Passive Connect: ☐ Yes ☒ No

At Time of Disconnect: ☐ Yes ☒ No

Setting the 485/ethernet converter – bookmark Connection

- Homepage
- Contact
- Network
- Server
- Hostlist
- Serial Settings
- Connection
- Email
- Trigger 1
- Trigger 2
- Trigger 3
- Apply Settings
- Apply Factory Defaults

Connection Settings

Connect Protocol

Protocol: TCP

Connect Mode

Passive Connection:

Accept Incoming: Yes

Password Required: ☐ Yes ☒ No

Password:

Active Connection:

Active Connect: None

Start Character: 0x00 (in Hex)

Modem Mode: None

Mdm Esc Seq Pass Thru: ☒ Yes ☐ No

Show IP Address After RING: ☒ Yes ☐ No

Endpoint Configuration:

Local Port: 10001

☐ Auto increment for active connect

Remote Port: 0

Remote Host: 0.0.0.0

Common Options:

Telnet Mode: Disable

Connect Response: None

Terminal Name:

Use Hostlist: ☐ Yes ☒ No

LED: Blink

Disconnect Mode

On Mdm_Ctrl_In Drop: ☐ Yes ☒ No

Hard Disconnect: ☒ Yes ☐ No

Check EOT(Ctrl-D): ☐ Yes ☒ No

Inactivity Timeout: 0 : 0 (mins : secs)

OK